

INTERNATIONAL SEARCH REPORT

Intern

Application No

PCT/BR2004/000240

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F04B35/04 F04B49/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 176 683 B1 (YANG SOON-BAE) 23 January 2001 (2001-01-23)	1-5,7-9, 11-13, 15,16, 18-31
Y	abstract column 2, lines 7-38 column 3, lines 11-33 column 4, line 37 - column 5, line 16 column 6, lines 1-14 claim 3	6,10,14, 17
Y	US 2003/161734 A1 (KIM TAE-DUK) 28 August 2003 (2003-08-28) abstract; figure 3 paragraph '0003! paragraph '0008! paragraphs '0014!, '0015!	6,10,14, 17
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

18 April 2005

Date of mailing of the international search report

22/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2003/219341 A1 (DOVEY STEPHEN J ET AL) 27 November 2003 (2003-11-27) abstract paragraph '0013! paragraph '0015! -----</p>	1-31

INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/BR2004/000240

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